Alg. 1 Hw 3/6

**Monomial, Polynomial, Binomial, Trinomial?**

**1. State whether the following statements are true or false:**

(i) Expression 5a2 + a is a trinomial  
  
(ii) Expression ax2 + bx + c is a trinomial  
  
(iii) 5 × mn is a binomial  
  
(iv) 11 + xy is a binomial  
  
(v) a3 – 3ab + 7a + 9 is a polynomial  
  
(vi) 1 + 2x + 3x2 + x4 + x5 is a binomial  
  
(vii) p2 + q2 + r2 is a trinomial

**2. For each expression, given below, state whether it is a monomial, binomial or trinomial:**

(i) mn

(ii) mn + m

(iii) 2a ÷ b

(iv) 7abc

(v) 7 + u + v

(vi) 2p2 – p  
  
(vii) –k  
  
(viii) ax2 + bx – 7

(ix) -3mn + t

(x) 1 + a + z

(xi) 1 + a ÷ z

(xii) a + ab – b2

**Answers**

**Answers:**

**1.** (i) false

(ii)true

(iii) false

(iv) true

(v) true

(vi) true

(vii) false

(viii) true

2. (i) monomial

(ii) binomial

(iii) monomial

(iv) monomial

(v) trinomial

(vi) binomial

(vii) monomial

(viii) trinomial

(ix) binomial

(x) trinomial

(xi) binomial

(xii) trinomial